

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,696B DATE: 10/03/2001

ENTERED

TIME: 08:31:45

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\10032001\I700696B.raw

- 4 <110> APPLICANT: Rowe, Peter
- 6 <120> TITLE OF INVENTION: A Novel Polypeptide Hormone Phosphatonin
- 9 <130> FILE REFERENCE: VOSS001
- 11 <140> CURRENT APPLICATION NUMBER: US 09/700,696B
- 12 <141> CURRENT FILING DATE: 2000-11-17
- 14 <150> PRIOR APPLICATION NUMBER: PCT EP99/03403
- 15 <151> PRIOR FILING DATE: 1999-05-18
- 17 <150> PRIOR APPLICATION NUMBER: GB 9810681.8
- 18 <151> PRIOR FILING DATE: 1998-05-18
- 20 <150> PRIOR APPLICATION NUMBER: GB 9819387.3
- 21 <151> PRIOR FILING DATE: 1998-09-04
- 23 <160> NUMBER OF SEQ ID NOS: 25
- 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
- 27 <210> SEQ ID NO: 1
- 28 <211> LENGTH: 1655
- 29 <212> TYPE: DNA
- 30 <213> ORGANISM: Homo sapiens

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35	ctacatgacc	aagaagaata	tggcgcagct	ctcatcagaa	ataacatgca	acatataatg	180
36	gggccagtga	ctgcgattaa	actcctgggg	gaagaaaaca	aagagaacac	acctaggaat	240
37	gttctaaaca	taatcccagc	aagtatgaat	tatgctaaag	cacactcgaa	ggataaaaag	300
38	aagcctcaaa	gagattccca	agcccagaaa	agtccagtaa	aaagcaaaag	cacccatcgt	360
39	attcaacaca	acattgacta	cctaaaacat	ctctcaaaag	tcaaaaaaat	ccccagtgat	420
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41	agtggggacg	gccaaccttt	taaggacatt	cctggtaaag	gagaagctac	tggtcctgac	540
42	ctagaaggca	aagatattca	aacagggttt	gcaggcccaa	gtgaagctga	gagtactcat	600
43	cttgacacaa	aaaagccagg	ttataatgag	atcccagaga	gagaagaaaa	tggtggaaat	660
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46	aacagagtgg	atgctggcag	ccaaaatgct	caccaaggga	aggttgagtt	tcattaccct	840
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48	tataatgaaa	ttcctaaaaa	tggcaaaggc	agtaccagaa	agggtgtaga	tcattctaat	960
49	aggaaccaag	caaccttaaa	tgaaaaacaa	aggtttccta	gtaagggcaa	aagtcagggc	1020
50	ctgcccattc	cttctcgtgg	tcttgataat	gaaatcaaaa	acgaaatgga	ttcctttaat	1080
51	ggccccagtc	atgagaatat	aataacacat	ggcagaaaat	atcattatgt	accccacaga	1140
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54	agtggcagtt	caagtgagag	cgatggtgac	tagtccacca	ggagttccca	gcggggtgac	1320
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56	ggtgaagaga	ggatagagtg	aagaactgag	tgagccaaga	atcctggtct	ccttggggga	1440
57	atttttgcta	tcttaatagt	cacagtataa	aattctatta	aaggctataa	tgtttttaag	1500
58	caaaaaaaa	tcattacaga	tctatgaaat	aggtaacatt	tgagtaggtg	tçatttaaaa	1560
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63 <211> LENGTH: 430 64 <212> TYPE: PRT 65 <213> ORGANISM: Homo sapiens 67 <400> SEQUENCE: 2 68 Val Asn Lys Glu Tyr Ser Ile Ser Asn Lys Glu Asn Thr His Asn Gly 10 5 70 Leu Arg Met Ser Ile Tyr Pro Lys Ser Thr Gly Asn Lys Gly Phe Glu 72 Asp Gly Asp Asp Ala Ile Ser Lys Leu His Asp Gln Glu Glu Tyr Gly 40 74 Ala Ala Leu Ile Arg Asn Asn Met Gln His Ile Met Gly Pro Val Thr 55 76 Ala Ile Lys Leu Leu Gly Glu Glu Asn Lys Glu Asn Thr Pro Arg Asn 70 78 Val Leu Asn Ile Ile Pro Ala Ser Met Asn Tyr Ala Lys Ala His Ser 80 Lys Asp Lys Lys Lys Pro Gln Arg Asp Ser Gln Ala Gln Lys Ser Pro 105 82 Val Lys Ser Lys Ser Thr His Arg Ile Gln His Asn Ile Asp Tyr Leu 120 84 Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser 135 86 Gly Tyr Thr Asp Leu Gln Glu Arg Gly Asp Asn Asp Ile Ser Pro Phe 150 155 88 Ser Gly Asp Gly Gln Pro Phe Lys Asp Ile Pro Gly Lys Gly Glu Ala 165 170 90 Thr Gly Pro Asp Leu Glu Gly Lys Asp Ile Gln Thr Gly Phe Ala Gly 185 92 Pro Ser Glu Ala Glu Ser Thr His Leu Asp Thr Lys Lys Pro Gly Tyr 200 94 Asn Glu Ile Pro Glu Arg Glu Glu Asn Gly Gly Asn Thr Ile Gly Thr 215 96 Arg Asp Glu Thr Ala Lys Glu Ala Asp Ala Val Asp Val Ser Leu Val 230 235 98 Glu Gly Ser Asn Asp Ile Met Gly Ser Thr Asn Phe Lys Glu Leu Pro 245 250 100 Gly Arg Glu Gly Asn Arg Val Asp Ala Gly Ser Gln Asn Ala His Gln 265 102 Gly Lys Val Glu Phe His Tyr Pro Pro Ala Pro Ser Lys Glu Lys Arg 275 280 104 Lys Glu Gly Ser Ser Asp Ala Ala Glu Ser Thr Asn Tyr Asn Glu Ile 295 106 Pro Lys Asn Gly Lys Gly Ser Thr Arg Lys Gly Val Asp His Ser Asn 107 305 310 315 108 Arg Asn Gln Ala Thr Leu Asn Glu Lys Gln Arg Phe Pro Ser Lys Gly 325 110 Lys Ser Gln Gly Leu Pro Ile Pro Ser Arg Gly Leu Asp Asn Glu Ile 345 340 112 Lys Asn Glu Met Asp Ser Phe Asn Gly Pro Ser His Glu Asn Ile Ile RAW SEQUENCE LISTING DATE: 10/03/2001
PATENT APPLICATION: US/09/700,696B TIME: 08:31:46

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\10032001\1700696B.raw

355 360 114 Thr His Gly Arg Lys Tyr His Tyr Val Pro His Arg Gln Asn Asn Ser 375 116 Thr Arg Asn Lys Gly Met Pro Gln Gly Lys Gly Ser Trp Gly Arg Gln 117 385 390 395 118 Pro His Ser Asn Arg Arg Phe Ser Ser Arg Arg Asp Asp Ser Ser 405 410 120 Glu Ser Ser Asp Ser Gly Ser Ser Ser Glu Ser Asp Gly Asp 420 425 121 122 <210> SEQ ID NO: 3 123 <211> LENGTH: 4 124 <212> TYPE: PRT 125 <213> ORGANISM: Artificial Sequence 127 <220> FEATURE: 128 <223> OTHER INFORMATION: glycosaminoglycan attachment motif 130 <400> SEQUENCE: 3 131 Ser Gly Asp Gly 132 1 133 <210> SEQ ID NO: 4 134 <211> LENGTH: 7 135 <212> TYPE: PRT 136 <213> ORGANISM: Artificial Sequence 138 <220> FEATURE: 139 <223> OTHER INFORMATION: metalloproteinase cleavage site 141 <400> SEQUENCE: 4 142 Ala Asp Ala Val Asp Val Ser 143 1 144 <210> SEQ ID NO: 5 145 <211> LENGTH: 22 146 <212> TYPE: PRT 147 <213> ORGANISM: Homo sapiens 149 <400> SEQUENCE: 5 150 Ser Ser Arg Arg Arg Asp Asp Ser Ser Glu Ser Ser Asp Ser Gly Ser 151 1 10 5 152 Ser Ser Glu Ser Asp Gly 20 154 <210> SEQ ID NO: 6 155 <211> LENGTH: 21 156 <212> TYPE: PRT 157 <213> ORGANISM: Homo sapiens 159 <400> SEQUENCE: 6 160 Ser Ser Arg Ser Lys Glu Asp Ser Asn Ser Thr Glu Ser Lys Ser Ser 10 162 Ser Glu Glu Asp Gly 163 20 166 <210> SEQ ID NO: 7 167 <211> LENGTH: 14 168 <212> TYPE: PRT 169 <213> ORGANISM: Homo sapiens

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\10032001\I700696B.raw

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Input Set : A:\Seqlist.txt

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242 <210> SEQ ID NO: 14 243 <211> LENGTH: 15 244 <212> TYPE: PRT 245 <213> ORGANISM: Homo sapiens 247 <400> SEQUENCE: 14 248 Asp Asp Ser Ser Asp Ser Ser Asp Ser Ser Ser Asp Ser 252 <210> SEQ ID NO: 15 253 <211> LENGTH: 14 254 <212> TYPE: PRT 255 <213> ORGANISM: Homo sapiens 257 <400> SEQUENCE: 15 258 Asp Ser Ser Asp Ser Ser Asp Ser Ser Ser Ser Ser Ser 262 <210> SEQ ID NO: 16 263 <211> LENGTH: 14 264 <212> TYPE: PRT 265 <213> ORGANISM: Homo sapiens 267 <400> SEQUENCE: 16 268 Asp Ser Ser Glu Ser Ser Asp Ser Ser Asn Ser Ser Asp Ser 269 1 272 <210> SEQ ID NO: 17 273 <211> LENGTH: 14 274 <212> TYPE: PRT 275 <213> ORGANISM: Homo sapiens 277 <400> SEQUENCE: 17 278 Asp Ser Ser Asp Ser Ser Asp Ser Ser Asn Ser Ser Asp Ser 10 282 <210> SEQ ID NO: 18 283 <211> LENGTH: 16 284 <212> TYPE: PRT 285 <213> ORGANISM: Homo sapiens 287 <400> SEQUENCE: 18 288 Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser Asp Glu Ser Asp 10 292 <210> SEQ ID NO: 19 293 <211> LENGTH: 11 294 <212> TYPE: PRT 295 <213> ORGANISM: Homo sapiens 297 <400> SEQUENCE: 19 298 Ser Asp Glu Ser His His Ser Asp Glu Ser Asp 302 <210> SEQ ID NO: 20 303 <211> LENGTH: 11 304 <212> TYPE: PRT 305 <213> ORGANISM: Homo sapiens 307 <400> SEQUENCE: 20 308 Ser Asp Ser Ser Ser Ser Ser Asp Ser Ser Asp

309 1

VERIFICATION SUMMARY DATE: 10/03/2001 PATENT APPLICATION: US/09/700,696B TIME: 08:31:47

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\10032001\1700696B.raw